

Fig. 2A

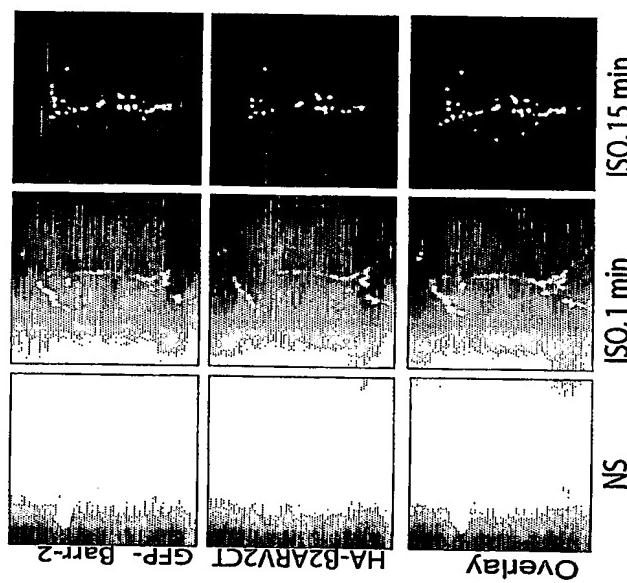


Fig. 2B

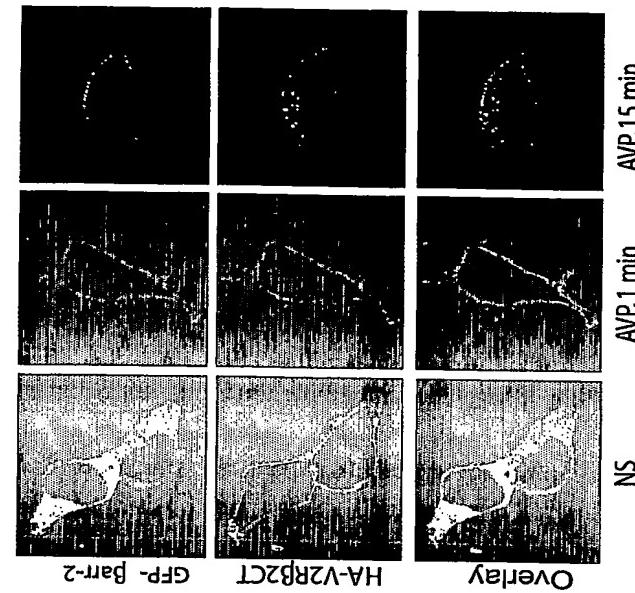


Fig. 2C

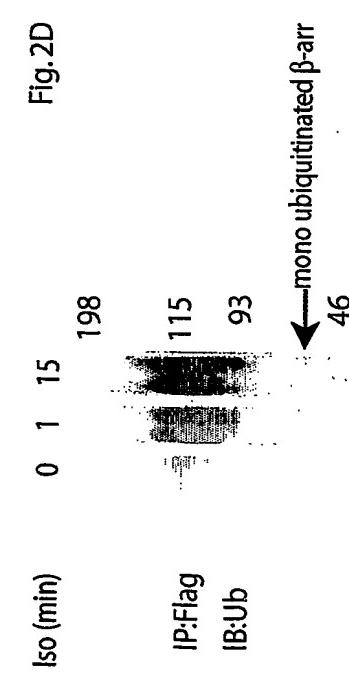
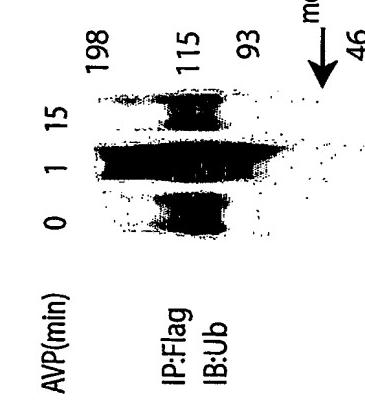
 β -arr2 Flag + β 2ARV2CT β -arr2 Flag + V2R β 2CT

Fig. 3A

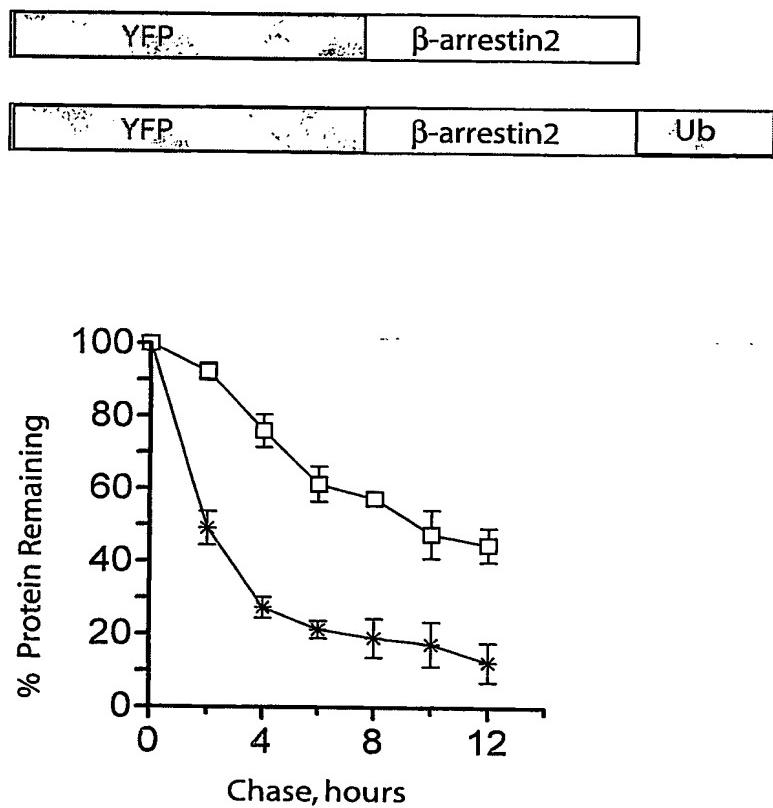


Fig 3B

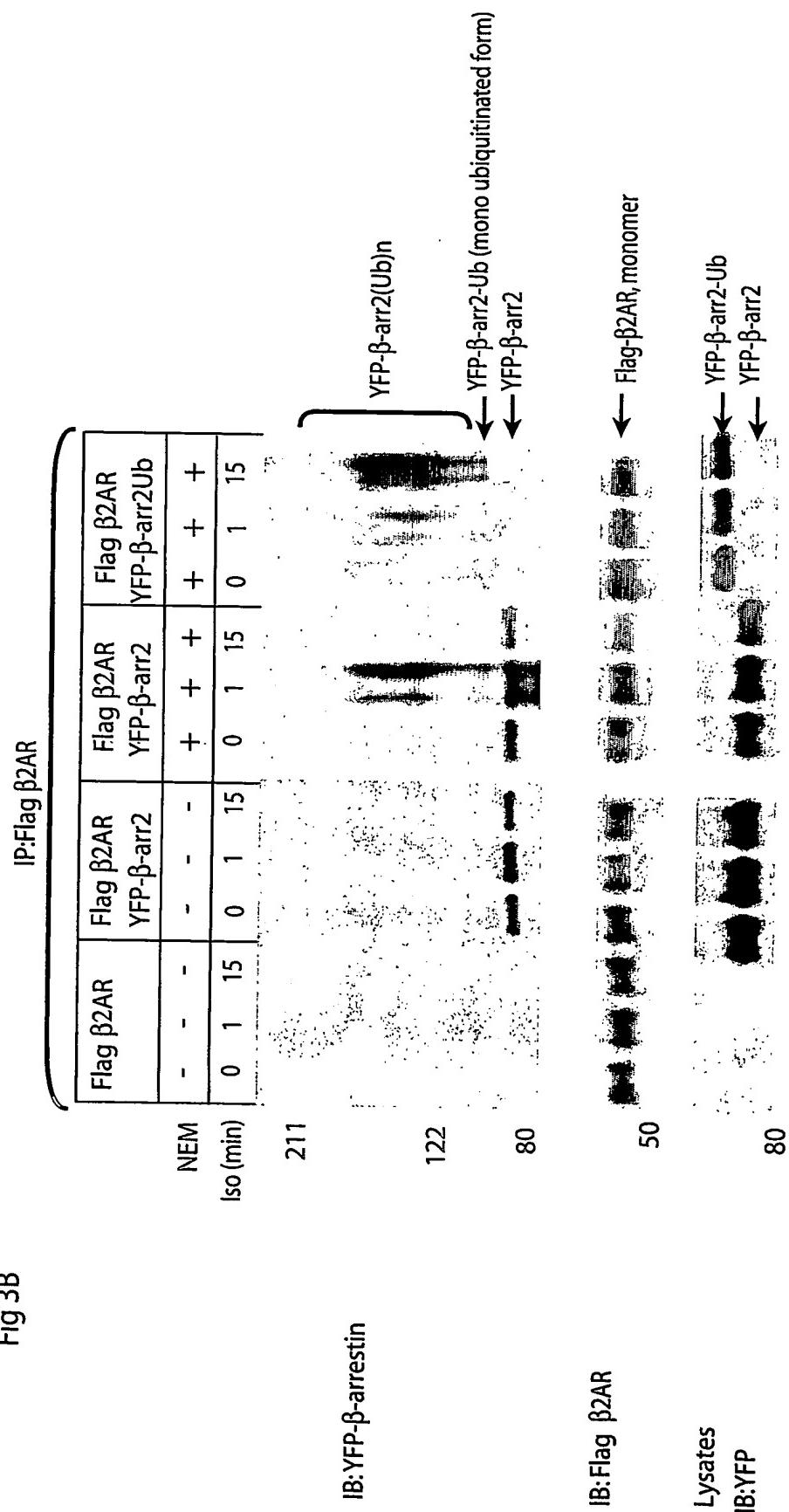


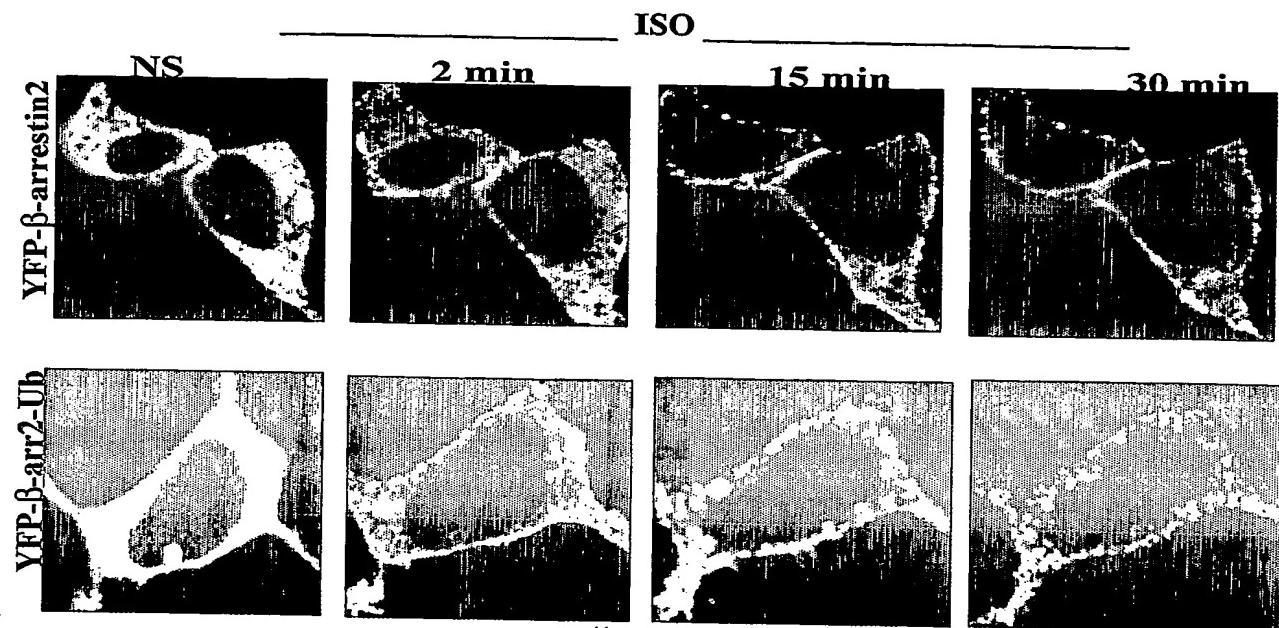
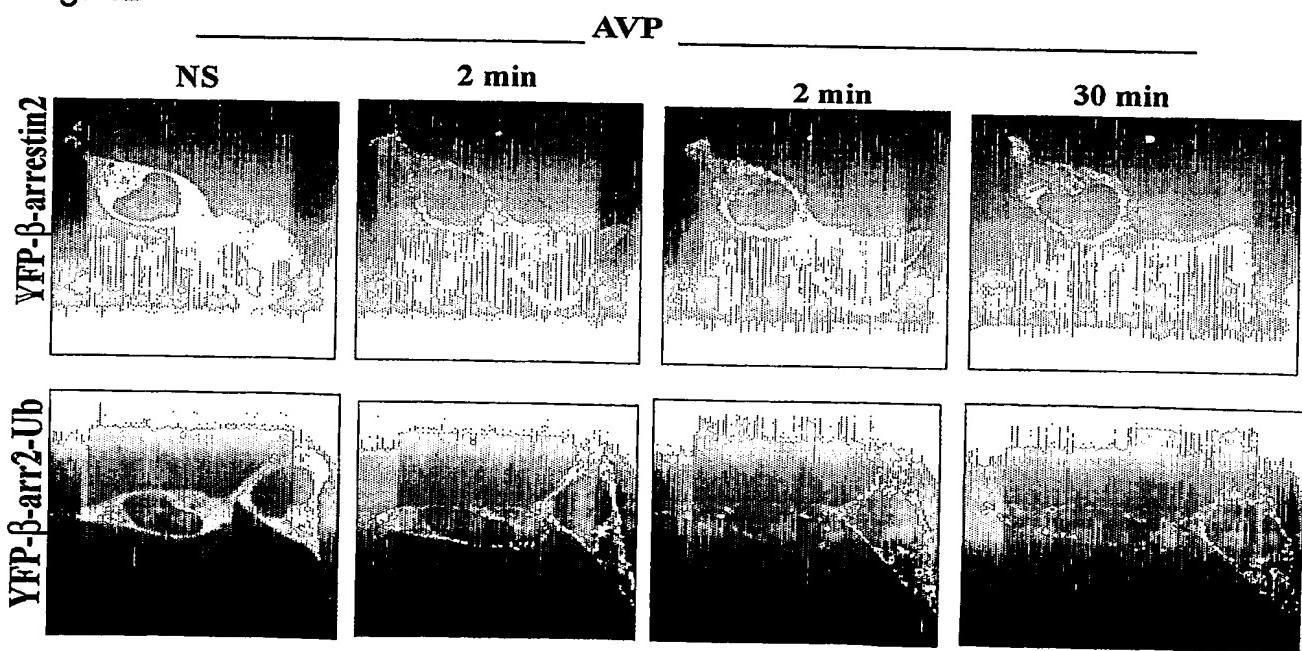
Fig. 4A**Fig. 4B**

Fig 5A

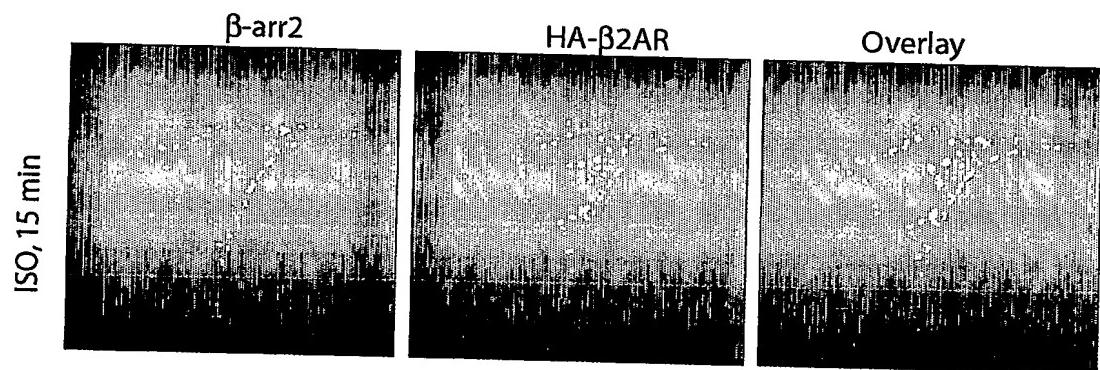


Fig 5B

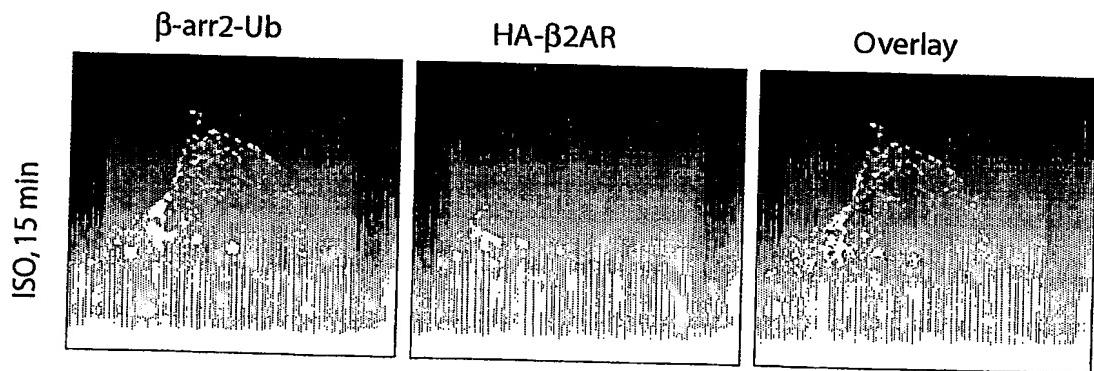


Fig. 6A

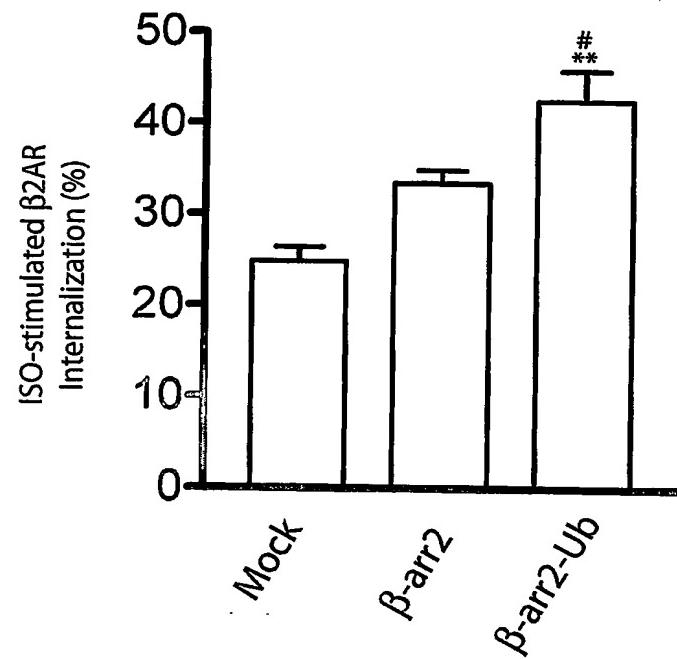


Fig. 6B

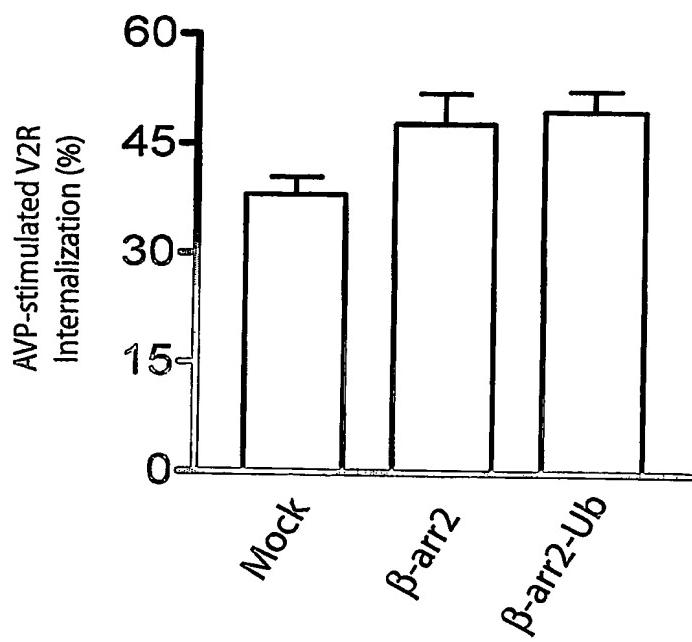


Fig. 7A

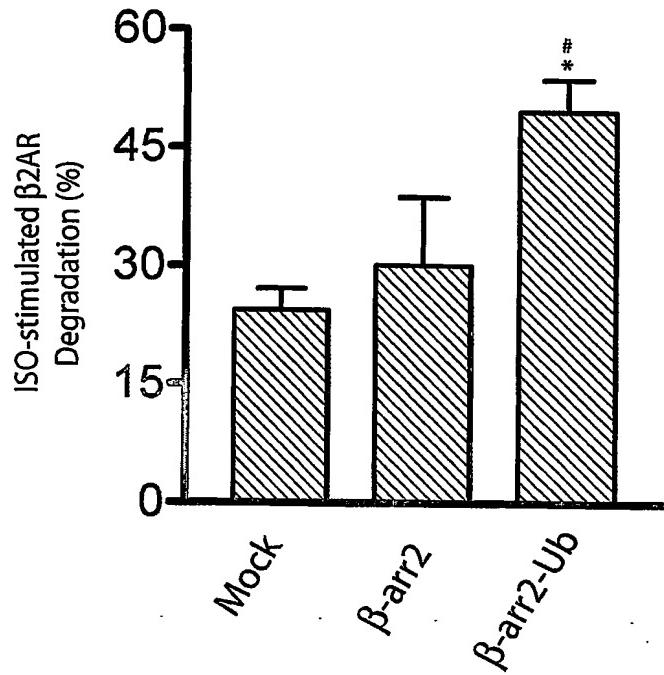


Fig. 7B

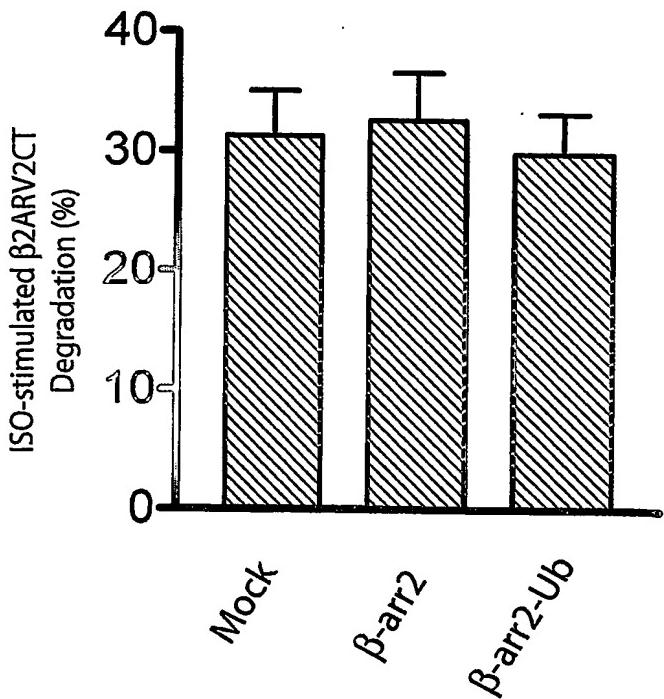


Fig. 8

EYFP-BARR2-UB

661/221

691/231

CTG CTG GAG TTC GTG ACC GCC GCC GGG ATC ACT CTC GGC ATG GAC GAG CTG TAC AAG TCC
 L L E F V T A A G I T L G M D E L Y K S
 721/241 751/251

GGA CTC AGA TCT CGA GCT CAA GCT TCG AAT TCT GCA GTC GAC GGT ACC ACG CCC ACC
 G L R S R A Q A S K S A V D G T T R T
 1/1 31/11

ATG GGT GAA AAA CCC GGG ACC AGG GTC TTC AAG AAG TCG AGC CCT AAC TGC AAG CTC ACC
 M G E K P G T R V F K K S S P N C K L T
 61/21 91/31

GTG TAC TTG GGC AAG CGT GAC TTT GTG GAT CAC TTG GAC AAA GTG GAT CCT GTC GAT GGT
 V Y L G K R D F V D H L D K V D P V D G
 121/41 151/51

GTG GTG CTT GTG GAT CCT GAC TAC TTG AAG GAC CGG AAA GTG TTT GTG ACC CTC ACC TGT
 V V L V D P D Y L K D R K V F V T L T C
 181/61 211/71

GCC TTC CGC TAT GGC CGA GAA GAC CTG GAT GTA CTG GGC CTG TCT TTC CGC AAA GAT CTG
 A F R Y G R E D L D V L G L S F R K D L
 241/81 271/91

TTC ATC GCC ACC TAC CAG GCC TTC CCC CCC ATG CCC AAC CCA CCT CGG CCC CCC ACC CGC
 F I A T Y Q A F P P M P N P P R P P T R
 301/101 331/111

CTA CAG GAC CGA CTG CTG AAG AAG TTG GGC CAG CAT GCC CAC CCC TTT TTT TTC ACA ATA
 L Q D R L L K K L G Q H A H P F F F T I
 361/121 391/131

CCC CAG AAT TTG CCT TGC TCC GTC ACA CTG CAG CCA GGA CCG GAG GAC ACA GGG AAG GCC
 P Q N L P C S V T L Q P G P E D T G K A
 421/141 451/151

TGT GGA GTA GAC TTT GAG ATT CGA GCC TTC TGT GCC AAA TCT ATA GAA GAA AAA AGC CAC
 C G V D F E I R A F C A K S I E E K S H
 481/161 511/171

AAA AGG AAC TCC GTG CGG CTT ATC ATC AGA AAG GTA CAG TTT GCT CCT GAG ACA CCC GGC
 K R N S V R L I I R K V Q F A P E T P G
 541/181 571/191

CCC CAG CCA TCA GCT GAA ACC ACA CGC CAC TTC CTC ATG TCT GAC CGG AGG TCC CTG CAC
 P Q P S A E T T R H F L M S D R R S L H
 601/201 631/211

CTA GAG GCT TCC CTG GAC AAA GAG CTG TAC TAC CAT GGG GAA CCC CTC AAT GTC AAC GTC
 L E A S L D K E L Y Y H G E P L N V N V
 661/221 691/231

CAC GTC ACC AAC AAT TCT GCC AAG ACC GTC AAG AAG ATC AGA GTG TCT GTG AGA CAG TAT
 H V T N N S A K T V K K I R V S V R Q Y
 721/241 751/251

GCC GAC ATT TGC CTC TTC AGC ACC GCG CAG TAC AAG TGT CCT GTG GCT CAG CTT GAA CAA
 A D I C L F S T A Q Y K C P V A Q L E Q
 781/261 811/271

GAT GAC CAG GTG TCT CCC AGT TCC ACA TTC TGC AAG GTG TAC ACC ATA ACC CCG CTG CTC
 D D Q V S P S S T F C K V Y T I T P L L
 841/281 871/291

AGT GAC AAC CGA GAG AAG CGT GGC CTT GCC CTT GAT GGG CAA CTC AAG CAC GAA GAC ACC
 S D N R E K R G L A L D G Q L K H E D T
 901/301 931/311

AAC CTG GCT TCC AGC ACC ATT GTG AAG GAG GGA GCC AAC AAG GAG GTG CTG GGA ATC CTA
 N L A S S T I V K E G A N K E V L G I L
 961/321 991/331

GTA TCC TAC AGG GTC AAG GTG AAG CTG GTG GTG TCT CGA GGC GGG GAT GTC TCC GTG GAG
 V S Y R V K V K L V V S R G G D V S V E
 1021/341 1051/351

CTA CCT TTC GTC CTA ATG CAC CCC AAG CCC CAC GAC CAC ATC ACC CTT CCC CGA CCC CAG
 L P F V L M H P K P H D H I T L P R P Q
 1081/361 1111/371

TCA GCC CCC CGG GAA ATA GAC ATC CCT GTG GAT ACC AAC CTC ATT GAA TTC GAT ACC AAC
 S A P R E I D I P V D T N L I E F D T N
 1141/381 1171/391

TAT GCC ACA GAC GAC GAC ATC GTG TTT GAG GAC TTT GCG AGG CTT CGG CTG AAG GGG ATG
 Y A T D D I V F E D F A R L R L K G M
 1201/401 1231/410

AAG GAT GAC GAC TGT GAT GAC CAG TTC TGC GTC GAC CAG ATC TTC GTG AAG ACT CTG
K D D D C D Q F C V D Q I F V K T L
22/8 52/18
ACT GGT AAG ACC ATC ACC CTC GAG GTG GAG CCC AGT GAC ACC ATC GAG AAT GTC AAG GCA
T G K T I T L E V E P S D T I E N V K A
82/28 112/38
AAG ATC CAA GAT AAG GAA GGC ATT CCT CCT GAT CAG CAG AGG TTG ATC TTT GCC GGA AAA
K I Q D K E G I P P D Q Q R L I F A G K
142/48 172/58
CAG CTG GAA GAT GGT CGT ACC CTG TCT GAC TAC AAC ATC CAG AAA GAG TCC ACC TTG CAC
Q L E D G R T L S D Y N I Q K E S T L H
202/68
CTG GTA CTC CGT CTC AGA GGT GGG TGA
L V L R L R G G ***

Fig. 9

EYFP-BARR2-UB48

661/221 691/231
 CTG CTG GAG TTC GTG ACC GCC GCC GGG ATC ACT CTC GGC ATG GAC GAG CTG TAC AAG TCC
 L L E F V T A A G I T L G M D E L Y K S
 721/241 751/251
 GGA CTC AGA TCT CGA GCT CAA GCT TCG AAT TCT GCA GTC GAC GGT ACC ACG CCC ACC
 G L R S R A Q A S K S A V D G T T R T
 1/1 31/11
 ATG GGT GAA AAA CCC GGG ACC AGG GTC TTC AAG AAG TCG AGC CCT AAC TGC AAG CTC ACC
 M G E K P G T R V F K K S S P N C K L T
 61/21 91/31
 GTG TAC TTG GGC AAG CGT GAC TTT GTG GAT CAC TTG GAC AAA GTG GAT CCT GTC GAT GGT
 V Y L G K R D F V D H L D K V D P V D G
 121/41 151/51
 GTG GTG CTT GTG GAT CCT GAC TAC TTG AAG GAC CGG AAA GTG TTT GTG ACC CTC ACC TGT
 V V L V D P D Y L K D R K V F V T L T C
 181/61 211/71
 GCC TTC CGC TAT GGC CGA GAA GAC CTG GAT GTA CTG GGC CTG TCT TTC CGC AAA GAT CTG
 A F R Y G R E D L D V L G L S F R K D L
 241/81 271/91
 TTC ATC GCC ACC TAC CAG GCC TTC CCC CCC ATG CCC AAC CCA CCT CGG CCC CCC ACC CGC
 F I A T Y Q A F P P M P N P P R P P T R
 301/101 331/111
 CTA CAG GAC CGA CTG CTG AAG AAG TTG GGC CAG CAT GCC CAC CCC TTT TTT TTC ACA ATA
 L Q D R L L K K L G Q H A H P F F T I
 361/121 391/131
 CCC CAG AAT TTG CCT TGC TCC GTC ACA CTG CAG CCA GGA CCG GAG GAC ACA GGG AAG GCC
 P Q N L P C S V T L Q P G P E D T G K A
 421/141 451/151
 TGT GGA GTA GAC TTT GAG ATT CGA GCC TTC TGT GCC AAA TCT ATA GAA GAA AAA AGC CAC
 C G V D F E I R A F C A K S I E E K S H
 481/161 511/171
 AAA AGG AAC TCC GTG CGG CTT ATC ATC AGA AAG GTA CAG TTT GCT CCT GAG ACA CCC GGC
 K R N S V R L I I R K V Q F A P E T P G
 541/181 571/191
 CCC CAG CCA TCA GCT GAA ACC ACA CGC CAC TTC CTC ATG TCT GAC CGG AGG TCC CTG CAC
 P Q P S A E T T R H F L M S D R R S L H
 601/201 631/211
 CTA GAG GCT TCC CTG GAC AAA GAG CTG TAC TAC CAT GGG GAA CCC CTC AAT GTC AAC GTC
 L E A S L D K E L Y Y H G E P L N V N V
 661/221 691/231
 CAC GTC ACC AAC AAT TCT GCC AAG ACC GTC AAG AAG ATC AGA GTG TCT GTG AGA CAG TAT
 H V T N N S A K T V K K I R V S V R Q Y
 721/241 751/251
 GCC GAC ATT TGC CTC TTC AGC ACC GCG CAG TAC AAG TGT CCT GTG GCT CAG CTT GAA CAA
 A D I C L F S T A Q Y K C P V A Q L E Q
 781/261 811/271
 GAT GAC CAG GTG TCT CCC AGT TCC ACA TTC TGC AAG GTG TAC ACC ATA ACC CCG CTG CTC
 D D Q V S P S S T F C K V Y T I T P L L
 841/281 871/291
 AGT GAC AAC CGA GAG AAG CGT GGC CTT GCC CTT GAT GGG CAA CTC AAG CAC GAA GAC ACC
 S D N R E K R G L A L D G Q L K H E D T
 901/301 931/311
 AAC CTG GCT TCC AGC ACC ATT GTG AAG GAG GGA GCC AAC AAG GAG GTG CTG GGA ATC CTA
 N L A S S T I V K E G A N K E V L G I L
 961/321 991/331
 GTA TCC TAC AGG GTC AAG GTG AAG CTG GTG GTG TCT CGA GGC GGG GAT GTC TCC GTG GAG
 V S Y R V K V K L V V S R G G D V S V E
 1021/341 1051/351
 CTA CCT TTC GTC CTA ATG CAC CCC AAG CCC CAC GAC CAC ATC ACC CTT CCC CGA CCC CAG
 L P F V L M H P K P H D H I T L P R P Q
 1081/361 1111/371
 TCA GCC CCC CGG GAA ATA GAC ATC CCT GTG GAT ACC AAC CTC ATT GAA TTC GAT ACC AAC
 S A P R E I D I P V D T N L I E F D T N
 1141/381 1171/391
 TAT GCC ACA GAC GAC GAC ATC GTG TTT GAG GAC TTT GCG AGG CTT CGG CTG AAG GGG ATG
 Y A T D D D I V F E D F A R L R L K G M
 1201/401 1231/410

AAG GAT GAC GAC TGT GAT GAC CAG TTC TGC GTC GAC CAG ATT TTC GTC AAG ACT TTG
K D D D C D D Q F C V D Q I F V K T L
22/8 52/18
ACC GGT AAA ACC ATA ACA TTG GAA GTT GAA TCT TCC GAT ACC ATC GAC AAC GTT AAG TCG
T G K T I T L E V E S S D T I E N V K S
82/28 112/38
AAA ATT CAA GAC AAG GAA GGT ATC CCT CCA GAT CAA CAA AGA TTG ATC TTT GCC GGT AGG
K I Q D K E G I P P D Q Q R L I F A G R
142/48 172/58
CAG CTA GAA GAC GGT AGA ACG CTG TCT GAT TAC AAC ATT CAG AAG GAG TCC ACC TTA CAT
Q L E D G R T L S D Y N I Q K E S T L H
202/68
CTT GTG CTA AGG CTA AGA GGT GGT TGA
L V L R L R G G ***

Fig. 10

EGFP-BARR2-Ub48

661/221 691/231
 CTG CTG GAG TTC GTG ACC GCC GCC GGG ATC ACT CTC GGC ATG GAC GAG CTG TAC AAG TCC
 L L E F V T A A G I T L G M D E L Y K S
 721/241 751/251
 GGA CTC AGA TCT CGA GCT CAA GCT TCG AAT TCT GCA GTC GAC GGT ACC ACG CGC ACC
 G L R S R A Q A S K S A V D G T T R T
 1/1 31/11
 ATG GGT GAA AAA CCC GGG ACC AGG GTC TTC AAG AAG TCG AGC CCT AAC TGC AAG CTC ACC
 M G E K P G T R V F K K S S P N C K L T
 61/21 91/31
 GTG TAC TTG GGC AAG CGT GAC TTT GTG GAT CAC TTG GAC AAA GTG GAT CCT GTC GAT GGT
 V Y L G K R D F V D H L D K V D P V D G
 121/41 151/51
 GTG GTG CTT GTG GAT CCT GAC TAC TTG AAG GAC CGG AAA GTG TTT GTG ACC CTC ACC TGT
 V V L V D P D Y L K D R K V F V T L T C
 181/61 211/71
 GCC TTC CGC TAT GGC CGA GAA GAC CTG GAT GTA CTG GGC CTG TCT TTC CGC AAA GAT CTG
 A F R Y G R E D L D V L G L S F R K D L
 241/81 271/91
 TTC ATC GCC ACC TAC CAG GCC TTC CCC CCC ATG CCC AAC CCA CCT CGG CCC CCC ACC CGC
 F I A T Y Q A F P P M P N P P R P P T R
 301/101 331/111
 CTA CAG GAC CGA CTG CTG AAG AAG TTG GGC CAG CAT GCC CAC CCC TTT TTT TTC ACA ATA
 L Q D R L L K K L G Q H A H P F F F T I
 361/121 391/131
 CCC CAG AAT TTG CCT TGC TCC GTC ACA CTG CAG CCA GGA CCG GAG GAC ACA GGG AAG GCC
 P Q N L P C S V T L Q P G P E D T G K A
 421/141 451/151
 TGT GGA GTA GAC TTT GAG ATT CGA GCC TTC TGT GCC AAA TCT ATA GAA GAA AAA AGC CAC
 C G V D F E I R A F C A K S I E E K S H
 481/161 511/171
 AAA AGG AAC TCC GTG CGG CTT ATC ATC AGA AAG GTA CAG TTT GCT CCT GAG ACA CCC GGC
 K R N S V R L I I R K V Q F A P E T P G
 541/181 571/191
 CCC CAG CCA TCA GCT GAA ACC ACA CGC CAC TTC CTC ATG TCT GAC CGG AGG TCC CTG CAC
 P Q P S A E T T R H F L M S D R R S L H
 601/201 631/211
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 L E A S L D K E L Y Y H G E P L N V N V
 661/221 691/231
 CAC GTC ACC AAC AAT TCT GCC AAG ACC GTC AAG AAG ATC AGA GTG TCT GTG AGA CAG TAT
 H V T N N S A K T V K K I R V S V R Q Y
 721/241 751/251
 GCC GAC ATT TGC CTC TTC AGC ACC GCG CAG TAC AAG TGT CCT GTG GCT CAG CTT GAA CAA
 A D I C L F S T A Q Y K C P V A Q L E Q
 781/261 811/271
 GAT GAC CAG GTG TCT CCC AGT TCC ACA TTC TGC AAG GTG TAC ACC ATA ACC CCG CTG CTC
 D D Q V S P S S T F C K V Y T I T P L L
 841/281 871/291
 AGT GAC AAC CGA GAG AAG CGT GGC CTT GCC CTT GAT GGG CAA CTC AAG CAC GAA GAC ACC
 S D N R E K R G L A L D G Q L K H E D T
 901/301 931/311
 AAC CTG GCT TCC AGC ACC ATT GTG AAG GAG GGA GCC AAC AAG GAG GTG CTG GGA ATC CTA
 N L A S S T I V K E G A N K E V L G I L
 961/321 991/331
 GTA TCC TAC AGG GTC AAG GTG AAG CTG GTG GTG TCT CGA GGC GGG GAT GTC TCC GTG GAG
 V S Y R V K V K L V V S R G G D V S V E
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 CTA CCT TTC GTC CTA ATG CAC CCC AAG CCC CAC GAC CAC ATC ACC CTT CCC CGA CCC CAG
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 S A P R E I D I P V D T N L I E F D T N
 1141/381 1171/391
 TAT GCC ACA GAC GAC GAC ATC GTG TTT GAG GAC TTT GCG AGG CTT CGG CTG AAG GGG ATG
 Y A T D D D I V F E D F A R L R L K G M
 1201/401 1231/410

AAG GAT GAC GAC TGT GAT GAC CAG TTC TGC GTC GAC CAG ATC TTC GTG AAG ACT CTG
K D D D C D D Q F C V D Q I F V K T L
22/8 52/18
ACT GGT AAG ACC ATC ACC CTC GAG GTG GAG CCC AGT GAC ACC ATC GAG AAT GTC AAG GCA
T G K T I T L E V E P S D T I E N V K A
82/28 112/38
AAG ATC CAA GAT AAG GAA GGC ATT CCT CCT GAT CAG CAG AGG TTG ATC TTT GCC GGA AGA
K I Q D K E G I P P D Q Q R L I F A G R
142/48 172/58
CAG CTG GAA GAT GGT CGT ACC CTG TCT GAC TAC AAC ATC CAG AAA GAG TCC ACC TTG CAC
Q L E D G R T L S D Y N I Q K E S T L H
202/68
CTG GTA CTC CGT CTC AGA GGT GGG TGA
L V L R L R G G ***

Fig. 11A Human G Protein Coupled Receptor Family
(Receptors known as of January, 1999)

CLASS	LIGAND	NUMBER	TISSUE	PHYSIOLOGY	THERAPEUTICS
•Class I Rhodopsin like	•Amine ·Acetylcholine (muscarinic & nicotinic)	5	Brain, Nerves, Heart	Neurotransmitter	Acuity, Alzheimer's
	·Adrenoceptors	6	Brain, Kidney, Lung Kidney, Heart	Gluconeogenesis Muscle Contraction	Diabetes, Cardiovascular
	·Alpha Adrenoceptors	3	Brain, Kidney, GI	Neurotransmitter	Cardiovascular, Respiratory
	·Beta Adrenoceptors	5	Vascular, Heart, Brain	Vascular Permeability	Cardiovascular, Parkinson's
	·Dopamine	2	Most Tissues	Neurotransmitter	Anti-inflammatory, Ulcers
	·Histamine	16			Depression, Insomnia, Analgesic
	·Serotonin (5-HT)				
	•Peptide				
	·Angiotensin	2	Vascular, Liver, Kidney	Vasoconstriction	Cardiovascular, Endocrine
	·Bradykinin	1	Liver, Blood	Vasodilation,	Anti-inflammatory, Asthma
	·C5a anaphylatoxin	1	Blood	Immune System	Anti-inflammatory
	·Fmet-Leu-Phe	3	Blood	Chemoattractant	Anti-inflammatory
	·Interleukin-8	1	Blood	Chemoattractant	Anti-inflammatory
	·Chemokine	6	Blood	Chemoattractant	Anti-inflammatory
	·Orexin	2	Brain	Fat Metabolism	Obesity
	·Nociceptin	1	Brain	Bronchodilator, Pain	Airway Diseases, Anesthetic
	·CCK (Gastrin)	2	Gastrointestinal	Motility, Fat Absorption	Gastrointestinal, Obesity, Parkinson's
	·Endothelin	2			Cardiovascular, Respiratory
	·Melanocortin	5	Heart, Bronchus, Brain Kidney, Brain	Muscle Contraction Metabolic Regulation	Anti-inflammatory, Analgesics
	·Neuropeptide Y	5	Nerves, Intestine, Blood	Neurotransmitter	Behavior, Memory, Cardio- vascular
	·Neurotensin	1	Brain,	CNS	Cardiovascular, Analgesic

·Opioid	3	Brain, Brain, Gastrointestinal	CNS Neurotransmitter
·Somatostatin	5		
·Tachykinin (Substance P, NKA ₁)	3	Brain Nerves Platelets, Blood Vessels	Neurohormone Coagulation
·Thrombin	3		
·Vasopressin-like	4	Arteries, Heart, Bladder	Water Balance
·Galanin	1	Brain, Pancreas	Neurotransmitter
·Hormone protein			
·Follicle stimulating hormone	1	Ovary, Testis	Endocrine
·Lutropin-choriogonadotrophic	1	Ovary, Testis	Endocrine
·Thyrotropin	1	Thyroid	Endocrine
·(Rhod)opsin			
·Opsin	5	Eye	Photoreception
·Olfactory	4(~1000)	Nose	Smell
·Prostanoid			
·Prostaglandin	5	Arterial, Gastrointestinal Vessels, Heart, Lung	Vasodilation, Pain Inflammation
·Lysophosphatidic Acid	2	Most Cells	Cell proliferation
·Sphingosine-1-phosphate	2	White Blood Cells, Bronchus	Inflammation
·Leukotriene	1	Arterial, Gastrointestinal	Platelet Regulation
·Prostacyclin	1	Arterial, Bronchus	Vasoconstriction
·Thromboxane	1		
·Nucleotide-like			
·Adenosine	4	Vascular, Bronchus	Multiple Effects
·Purinoceptors	4	Vascular, Platelets	Relaxes Muscle
·Cannabis	2	Brain	Sensory Perception
·Platelet activating factor	1	Most Peripheral Tissues	Inflammation

•Gonadotropin-releasing hormone like		Reproductive Organs, Pituitary Reproduction	Prostate Cancer, Endometriosis
·Gonadotropin-releasing hormone	1	Pituitary, Brain	Metabolic Regulation
·Thyrotropin-releasing hormone	1	Gastrointestinal	Oncology, Alzheimer's
·Growth hormone-inhibiting factor	1	Brain, Eye, Pituitary	Regulation of Circadian Cycle
·Melatonin	1		
•Class II Secretin like			
·Secretin	1	Gastrointestinal, Heart	Digestion
·Calcitonin	1	Bone, Brain	Calcium Resorption
·Corticotropin releasing factor/urocortin	1	Adrenal, Vascular, Brain	Neuroendocrine
·Gastric inhibitory peptide (GIP)	1	Adrenals, Fat Cells	Sugar/Fat Metabolism
·Glucagon	1	Liver, Fat Cells, Heart	Gluconeogenesis
·Glucagon-like Peptide 1 (GLP-1)	1	Pancreas, Stomach, Lung	Gluconeogenesis
·Growth hormone-releasing hormone		Brain	Neuroendocrine
·Parathyroid hormone	1	Bone, Kidney	Calcium Regulation
·PACAP	1	Brain, Pancreas, Adrenals	Metabolism
·Vasoactive intestinal polypeptide (VIP)	1	Gastrointestinal	Motility
•Class III			Gastrointestinal
·Metabotropic Glutamate	7	Brain	Sensory Perception
·GABA _B	1	Brain	Neurotransmitter
·Extracellular Calcium Sensing	1	Parathyroid, Kidney, GI Tract	Calcium Regulation
			Hearing, Vision
			Mood Disorders
			Cataracts, GI Tumors

Fig. 11B**G protein-coupled receptors:**
(Division into Class A
Or Class B)

1. **A1 adenosine receptor [Homo sapiens].** ACCESSION AAB25533
npivyaf riqkfrvtfl kiwndhfrcq pappidedlp eerpdd
Class A
2. **adrenergic, alpha -1B-, receptor [Homo sapiens].** ACCESSION NP_000670
npiypcsskefkrafvrilgeqcrgrgrrrrrrrlggcaytyrpwtrggslersqrkdslldsgscldgsqrtpsaspapgylgr
gappvelcafpekwkapgallspapeppgrgrhdsgplftfklitepespgtdggasngceaaadvangqpgfksnmpla
pgqf
Class A
3. **adrenergic receptor alpha-2A [Homo sapiens].** ACCESSION AAG00447
npviytifnhdftrafkkilcrgdrkriv
Class A
4. **alpha-2B-adrenergic receptor - human.** ACCESSION A37223
npviytifnqdfrafrilcrpwqtaw
Class A
5. **alpha-2C-adrenergic receptor - human.** ACCESSION A31237
npviytfnqdfrpsfkhilfrrrrrgfrq
Class A
6. **beta-1-adrenergic receptor [Homo sapiens].** ACCESSION NP_000675
npiiycrspdfrkafqglccarraarrrhathgdrprasgclarpgpppspgaaasdddddvvgatpparllepwagcnggaa
adsd ssldepcrpgfaseskv
Class A
7. **beta-2 adrenergic receptor.** ACCESSION P07550
npiycrspdfriafqellclrrsslkaygngyssngntgeqsgyhveqekenllcedlpgtedfvghqgtvpsdnidsqgrncs
tnsll
Class A
8. **dopamine receptor D1 [Homo sapiens].** ACCESSION NP_000785
npiiyafnadfrkafstllgcyrllcpatnnaietvsinnngaamfsshheprgsiskecnlvyliphavgssedlkkeeagiarpel
eklspalsvildytdvslekiqpitqngqhpt
Class A
9. **D(2) dopamine receptor.** ACCESSION P14416
npiiyttfniefrkafkilkhc
Class A

10. **d3 dopamine receptor - human.** ACCESSION G01977
npviytfniefrkafkilksc
Class A
11. **dopamine receptor D4 - human.** ACCESSION DYHUD4
npviytfnaefrnvfrkalracc
Class A
12. **dopamine receptor D5 - human.** ACCESSION DYHUD5
npviyafnadfqkvfaqlgcshfcsvetvnisnelisynqdivfhkeiaayihmmpnavpgnrevdndeeegpfdrmfqiyqtspdgdpvaesvweldcegeisldkitptpngfh
Class A
13. **muscarinic acetylcholine receptor M1 [Homo sapiens].** ACCESSION NP_000729
npmcyalcnkafrdtfrlllcrwdkrwrkipkrpgsvhrtpsrqc
Class A
14. **muscarinic acetylcholine receptor M2 [Homo sapiens].** ACCESSION NP_000730
npacyalcnatfkktfkhlmlchyknigatr
Class A
15. **muscarinic acetylcholine receptor M3 [Homo sapiens].** ACCESSION NP_000731
npvcyalcnktfrtfkmlllcqcdkkrrkqqyqqqrqsvifhkrapqal
Class A
16. **muscarinic acetylcholine receptor M4 [Homo sapiens].** ACCESSION NP_000732
npacyalcnatfkktfrhlllcqyrnigtar
Class A
17. **m5 muscarinic receptor.** locus HUMACHRM ACCESSION AAA51569
npicyalcnrtrkfkmlllcrwkkkkveeklywqgnsklp
Class A
18. **5-hydroxytryptamine (serotonin) receptor 1A [Homo sapiens].** ACCESSION BAA90449
npviyayfnkdfqnafkkiikckf
Class A
19. **5-hydroxytryptamine (serotonin) receptor 1B [Homo sapiens].** ACCESSION BAA94455
npiiytmnsnedfkqafhklirfkcts
Class A

20. **5-hydroxytryptamine (serotonin) receptor 1E [Homo sapiens]. ACCESSION BAA94458**
npllytsfnedfklafkklicre
Class A
21. **OLFACTOORY RECEPTOR 6A1. ACCESSION O95222**
npiiyclrnqevkralccilhlyqhqdppdkkgsvnv
Class A
22. **OLFACTOORY RECEPTOR 2C1. ACCESSION O95371**
npliytlrnmevkgalrrllgkgrevg
Class A
23. **angiotensin receptor 1 [Homo sapiens]. ACCESSION NP_033611**
nplfygflgkkfkryflqllyippakshsnlsfkmsfsyrvpsdnvssstkkpapcfeve
Class B
24. **angiotensin receptor 2 [Homo sapiens]. ACCESSION NP_000677**
npflycfvgnrfqqkrlrsfvfrvpitwlqgkresmscrksrsslremetvfs
Class B
25. **interleukin 8 receptor beta (CXCR2) [Homo sapiens]. ACCESSION NM_001557**
NPLIYAFIGQKFRHGLLKILAIHGLISKDSLKPDSRPSFVGSSSGHTSTTL
Class B
26. **cx3c chemokine receptor 1 (cx3cr1) (fractalkine receptor)**
ACCESSION P49238
npliyafagekfrrylyhlygkclavlcgrsvhvdfsssesqrsrhgsvlssnftyhtsdgdalll
Class B
27. **neurotensin receptor - human.** ACCESSION S29506
n pilynlvsanfrhiflatlaclpvwrrrkrfpafsrkadsvssnhflssnatretly
Class B
28. **SUBSTANCE-P RECEPTOR (SPR) (NK-1 RECEPTOR) (NK-1R). ACCESSION P25103**
npiiycclnldrfrlgfkhafrccpfisagdyeglemkstrylqtqgsvykvrslettistvvgaheeepepedgpkaipssldtsncssrsdskt
mtesfsfssnvl
Class B
29. **vasopressin receptor type 2 [Homo sapiens]. ACCESSION AAD16444**
npwiyasfsssvsselrlccargrtppslgpqdescftassslakdtss
Class B
30. **thyrotropin-releasing hormone receptor - human. ACCESSION JN0708**
npviynlmsqkfraafrklcncckqkptekpanysvalnysvikesdhfsteldditvtdtylsaikvsfddtclasevsfsqs
Class B

31. **oxytocin receptor - human.** ACCESSION A55493
npwiymltghlfhelvqrflccsasylgrrlgetsaskksnsssfvlshrssqrscsqpsta
Class B
32. **neuromedin U receptor 1 [Homo sapiens].** ACCESSION AAG24793
npvlyslmssrfretfqealclgacchrlprhsshlsrmtgtstlcvgslgswvhplagndgpeaqqetdps
Class B
33. **gastrin receptor.** ACCESSION AAC37528
nplvycfmhrrfrqacletcarccprpprparpralpdedpptsiaslrlsyttistilpg
Class B
34. **galanin receptor 3 [Homo sapiens].** ACCESSION 10879541
nplvyalashfrarfrlwpcgrtrhrarralrrvpassgppgcpgdarpngrllaggqgpepregpvhggeaargpe
Class A
35. **edg-1 - human.** ACCESSION A35300
npiiytltnkemrrafirimscckcpgdsagfkriagmefsrsksdnsshpqkdegdnpetimssgnvnsss
Class A
36. **central cannabinoid receptor [Homo sapiens].** ACCESSION NP_057167
npiiyalrskdlrhafrrsmfpscegtaqpldnsmgdsdclhkhannaasvhraaescikstvkiakvtmsvstdtsaeal
Class A
37. **delta opioid receptor - human.** ACCESSION I38532
npvlyafldenfkrcfrqlcrkpcgrpdpssfsrpreatarervtactpsdgpiggrraa
Class A
38. **proteinase activated receptor 2 (PAR-2) human.** ACCESSION P55085
dpfvyyfvshdfrdhaknallcrsvrtvkqmqvsltskkhsrksssyssssttvktsty
Class B
39. **vasopressive intestinal peptide receptor (VIPR) rat.** ACCESSION NM_012685
NGEVQAEELRRKWRWHLQGVLGWSSKSQHPWGGSNGATCSTQVSMLTRVSPSA
RRSSSFQAEVSLV
Class B